

APPENDIX B1

TANKS 4.0 INPUT/OUTPUT



Idaho Asphalt Supply, Inc.
Blackfoot, Idaho Facility

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 10
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	42.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	414,554.52
Turnovers:	5.49
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.31
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 10 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 10 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	6.6873
Vapor Space Volume (cu ft):	6,147.9005
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9957
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	6,147.9005
Tank Diameter (ft):	42.0000
Vapor Space Outage (ft):	4.4375
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.4375
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.4375
Roof Height (ft):	1.3125
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	21.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9957
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.4375
 Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	5.4925
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	414,554.5153
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	42.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	110.7243

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 10 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	6.69	110.72

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 12
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions

Shell Height (ft):	12.00
Diameter (ft):	10.00
Liquid Height (ft) :	12.00
Avg. Liquid Height (ft):	10.80
Volume (gallons):	7,050.25
Turnovers:	2.80
Net Throughput(gal/yr):	19,755.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Gray/Medium
Shell Condition	Good
Roof Color/Shade:	Gray/Medium
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.31
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 12 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Cracked Heavy Oil Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466			167.36
1,2,4-Trimethylbenzene						0.1421	0.1215	0.1657	120.1900	0.0085	0.0805	120.19
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0020	78.11
Diethylene Triamine (DETA)						0.0136	0.0113	0.0163	103.1700	0.1500	0.1361	103.17
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0011	0.0433	106.17
Hexane (-n)						6.8089	6.1399	7.5349	86.1700	0.0000	0.0004	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0003	0.0272	92.13
Unidentified Components						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 12 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.2670
Vapor Space Volume (cu ft):	102.4290
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9986
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	102.4290
Tank Diameter (ft):	10.0000
Vapor Space Outage (ft):	1.3042
Tank Shell Height (ft):	12.0000
Average Liquid Height (ft):	10.8000
Roof Outage (ft):	0.1042
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1042
Roof Height (ft):	0.3125
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	5.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Daily Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.6800
Tank Paint Solar Absorptance (Roof):	0.6800
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0020
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0190
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0210
Daily Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9986
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0200
Vapor Space Outage (ft):	1.3042
Working Losses (lb):	1.1810
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.):	19,755.0000
Annual Turnovers:	2.8020
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	7,050.2469
Maximum Liquid Height (ft):	12.0000
Tank Diameter (ft):	10.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.4480

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 12 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Cracked Heavy Oil Alkyl Amines	1.18	0.27	1.45
Toluene	0.03	0.01	0.04
Diethylene Triamine (DETA)	0.18	0.04	0.20
Ethylbenzene	0.05	0.01	0.06
Xylene (-m)	0.10	0.02	0.12
1,2,4-Trimethylbenzene	0.10	0.02	0.12
Benzene	0.00	0.00	0.00
Hexane (-n)	0.00	0.00	0.00
Unidentified Components	0.74	0.17	0.91

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 13
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	60.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	846,029.62
Turnovers:	2.69
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.88
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 13 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 13 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	14.2216
Vapor Space Volume (cu ft):	13,076.8794
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9955
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	13,076.8794
Tank Diameter (ft):	60.0000
Vapor Space Outage (ft):	4.6250
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.6250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.6250
Roof Height (ft):	1.8750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	30.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9955
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.6250
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	2.6913
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	848,028.6230
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	60.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	118.2586

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 13 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	14.22	118.26

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 14
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	60.00
Liquid Height (ft):	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	846,029.62
Turnovers:	2.69
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.88
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 14 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 14 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	14.2216
Vapor Space Volume (cu ft):	13,076.8794
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9955
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	13,076.8794
Tank Diameter (ft):	60.0000
Vapor Space Outage (ft):	4.6250
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.6250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.6250
Roof Height (ft):	1.8750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	30.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9955
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.6250
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	2.6913
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	846,029.6230
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	60.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	118.2586

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 14 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	14.22	118.26

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 15
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	60.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	846,029.62
Turnovers:	2.69
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.88
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 15 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 15 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	14.2216
Vapor Space Volume (cu ft):	13,076.8794
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9955
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	13,076.8794
Tank Diameter (ft):	60.0000
Vapor Space Outage (ft):	4.6250
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.6250
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.6250
Roof Height (ft):	1.8750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	30.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9955
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.6250
 Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	2.6913
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	846,029.6230
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	60.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	118.2586

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 15 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	14.22	118.26

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 16
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	52.00
Liquid Height (ft):	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	635,462.25
Turnovers:	3.58
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.63
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 16 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 16 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	10.4904
Vapor Space Volume (cu ft):	9,645.2130
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9956
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	9,645.2130
Tank Diameter (ft):	52.0000
Vapor Space Outage (ft):	4.5417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.5417
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.5417
Roof Height (ft):	1.6250
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	26.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9956
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.5417
 Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	3.5831
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	635,482.2502
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	52.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	114.5274

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 16 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	10.49	114.53

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 17
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	60.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	846,029.62
Turnovers:	2.69
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.88
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 17 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 17 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	14.2218
Vapor Space Volume (cu ft):	13,076.8794
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9955
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	13,076.8794
Tank Diameter (ft):	60.0000
Vapor Space Outage (ft):	4.6250
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	38.0000
Roof Outage (ft):	0.6250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.6250
Roof Height (ft):	1.8750
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	30.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	48.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0180
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9955
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.6250
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	2.6913
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	846,029.6230
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	60.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	118.2586

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 17 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	14.22	118.26

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 18
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	52.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	635,462.25
Turnovers:	3.58
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.63
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 18 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 18 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	10.4904
Vapor Space Volume (cu ft):	9,645.2130
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9956
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	9,645.2130
Tank Diameter (ft):	52.0000
Vapor Space Outage (ft):	4.5417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.5417
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.5417
Roof Height (ft):	1.6250
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	26.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0180
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9956
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.5417
 Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	3.5831
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	635,462.2502
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	52.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	114.5274

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 18 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	10.49	114.53

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 19
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions

Shell Height (ft):	16.00
Diameter (ft):	11.00
Liquid Height (ft) :	16.00
Avg. Liquid Height (ft):	14.40
Volume (gallons):	11,374.40
Turnovers:	1.74
Net Throughput(gal/yr):	19,755.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.34
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 19 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Cracked Heavy Oil Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466			167.36
1,2,4-Trimethylbenzene						0.1421	0.1215	0.1657	120.1900	0.0085	0.0805	120.19
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0020	78.11
Diethylene Triamine (DETA)						0.0136	0.0113	0.0163	103.1700	0.1500	0.1361	103.17
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0011	0.0433	106.17
Hexane (-n)						6.8089	6.1399	7.5349	86.1700	0.0000	0.0004	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0003	0.0272	92.13
Unidentified Components						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 19 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.4245
Vapor Space Volume (cu ft):	162.9439
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9982

Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	162.9439
Tank Diameter (ft):	11.0000
Vapor Space Outage (ft):	1.7146
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft):	14.4000
Roof Outage (ft):	0.1146

Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1146
Roof Height (ft):	0.3438
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	5.5000

Vapor Density	
Vapor Density (lb/cu ft):	0.0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0200
Daily Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030

Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0020
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0190
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0210
Daily Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Daily Ambient Temp. Range (deg. R):	25.8250

Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0200
Vapor Space Outage (ft):	1.7146

Working Losses (lb):	1.1810
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.):	19,755.0000
Annual Turnovers:	1.7368
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	11,374.3983
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft):	11.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	1.6055
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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 19 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Cracked Heavy Oil Alkyl Amines	1.18	0.42	1.61
Toluene	0.03	0.01	0.04
Diethylene Triamine (DETA)	0.16	0.06	0.22
Ethylbenzene	0.05	0.02	0.07
Xylene (-m)	0.10	0.03	0.13
1,2,4-Trimethylbenzene	0.10	0.03	0.13
Benzene	0.00	0.00	0.00
Hexane (-n)	0.00	0.00	0.00
Unidentified Components	0.74	0.27	1.01

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 20
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions

Shell Height (ft):	16.00
Diameter (ft):	12.00
Liquid Height (ft) :	16.00
Avg. Liquid Height (ft):	14.40
Volume (gallons):	13,536.47
Turnovers:	1.46
Net Throughput(gal/yr):	19,755.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 20 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Cracked Heavy Oil Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466			167.36
1,2,4-Trimethylbenzene						0.1421	0.1215	0.1657	120.1900	0.0085	0.0805	120.19
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0020	78.11
Diethylene Triamine (DETA)						0.0136	0.0113	0.0183	103.1700	0.1500	0.1361	103.17
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0011	0.0433	106.17
Hexane (-n)						8.8089	6.1399	7.5349	86.1700	0.0000	0.0004	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0003	0.0272	92.13
Unidentified Components						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 20 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.5082
Vapor Space Volume (cu ft):	195.0929
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9982
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	195.0929
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	1.7250
Tank Shell Height (ft):	18.0000
Average Liquid Height (ft):	14.4000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0200
Daily Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F):	48.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.8000
Tank Paint Solar Absorptance (Roof):	0.8000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0020
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0190
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0210
Daily Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0200
Vapor Space Outage (ft):	1.7250
Working Losses (lb):	1.1810
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr):	19,755.0000
Annual Turnovers:	1.4594
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	13,536.4740
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.6893

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 20 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Cracked Heavy Oil Alkyl Amines	1.18	0.51	1.69
Toluene	0.03	0.01	0.05
Diethylene Triamine (DETA)	0.16	0.07	0.23
Ethylbenzene	0.05	0.02	0.07
Xylene (-m)	0.10	0.04	0.14
1,2,4-Trimethylbenzene	0.10	0.04	0.14
Benzene	0.00	0.00	0.00
Hexane (-n)	0.00	0.00	0.00
Unidentified Components	0.74	0.32	1.06

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 22
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cutback Storage

Tank Dimensions

Shell Height (ft):	16.00
Diameter (ft):	14.00
Liquid Height (ft) :	16.00
Avg. Liquid Height (ft):	14.40
Volume (gallons):	18,424.65
Turnovers:	13.27
Net Throughput(gal/yr):	244,558.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 22 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Culback	All	275.00	270.00	280.00	275.00	0.1850	0.0100	0.2000	128.5900			276.33
1,2,4-Trimethylbenzene						5.6352	5.1711	6.1325	120.1900	0.0015	0.0974	120.19
Asphalt Cement						0.0044	0.0038	0.0052	105.0000	0.6850	0.0037	1,000.00
Benzene						61.3198	57.6622	65.1581	78.1100	0.0000	0.0264	78.11
Ethylbenzene						14.8309	13.7491	15.9786	106.1700	0.0001	0.0171	106.17
Hexane (-n)						80.1300	75.5813	84.8763	86.1700	0.0000	0.0158	86.17
Toluene						27.9879	26.1034	29.9335	92.1300	0.0003	0.1062	92.13
Unidentified Components						0.1083	0.0770	0.0990	158.7582	0.3120	0.5807	107.34
Xylene (-m)						13.1461	12.1729	14.1798	106.1700	0.0010	0.1527	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 22 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	8.4409
Vapor Space Volume (cu ft):	268.7502
Vapor Density (lb/cu ft):	0.0030
Vapor Space Expansion Factor:	0.0290
Vented Vapor Saturation Factor:	0.9832
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	268.7502
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	1.7458
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft):	14.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0030
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.1850
Daily Avg. Liquid Surface Temp. (deg. R):	734.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	734.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0290
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.1900
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.1850
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0100
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	734.6700
Daily Min. Liquid Surface Temp. (deg R):	729.6700
Daily Max. Liquid Surface Temp. (deg R):	739.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9832
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.1850
Vapor Space Outage (ft):	1.7458
Working Losses (lb):	138.5197
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr.):	244,558.0000
Annual Turnovers:	13.2734
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	18,424.8451
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	146.9606

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 22 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cutback	138.52	8.44	146.96
Asphalt Cement	0.51	0.03	0.55
Hexane (-n)	2.19	0.13	2.33
Benzene	3.65	0.22	3.87
Toluene	14.72	0.90	15.61
Ethylbenzene	2.36	0.14	2.51
Xylene (-m)	21.15	1.29	22.44
1,2,4-Trimethylbenzene	13.49	0.82	14.31
Unidentified Components	80.44	4.90	85.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 23
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cutback Storage

Tank Dimensions

Shell Height (ft):	16.00
Diameter (ft):	14.00
Liquid Height (ft):	16.00
Avg. Liquid Height (ft):	14.40
Volume (gallons):	18,424.65
Turnovers:	13.27
Net Throughput(gal/yr):	244,558.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 23 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cutback	All	275.00	270.00	280.00	275.00	0.1850	0.0100	0.2000	128.5900			278.33
1,2,4-Trimethylbenzene						5.6352	5.1711	6.1325	120.1900	0.0015	0.0974	120.19
Asphalt Cement						0.0044	0.0038	0.0052	105.0000	0.6850	0.0037	1,000.00
Benzene						61.3196	57.6522	65.1581	78.1100	0.0000	0.0264	78.11
Ethylbenzene						14.8309	13.7491	15.9766	106.1700	0.0001	0.0171	106.17
Hexane (-n)						80.1300	75.5813	84.8763	86.1700	0.0000	0.0158	86.17
Toluene						27.9679	26.1034	29.9335	92.1300	0.0003	0.1062	92.13
Unidentified Components						0.1083	0.0770	0.0990	158.7582	0.3120	0.5807	107.34
Xylene (-m)						13.1461	12.1729	14.1798	106.1700	0.0010	0.1527	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 23 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	8.4409
Vapor Space Volume (cu ft):	268.7502
Vapor Density (lb/cu ft):	0.0030
Vapor Space Expansion Factor:	0.0290
Vented Vapor Saturation Factor:	0.9832
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	268.7502
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	1.7458
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft):	14.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0030
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Daily Avg. Liquid Surface Temp. (deg. R):	734.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R):	10.731
Liquid Bulk Temperature (deg. R):	734.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0290
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.1800
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0100
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	734.6700
Daily Min. Liquid Surface Temp. (deg R):	729.6700
Daily Max. Liquid Surface Temp. (deg R):	739.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9832
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Space Outage (ft):	1.7458
Working Losses (lb):	138.5197
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr):	244,658.0000
Annual Turnovers:	13.2734
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	18,424.6451
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	146.9606

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 23 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cutback	138.52	8.44	146.96
Asphalt Cement	0.51	0.03	0.55
Hexane (-n)	2.19	0.13	2.33
Benzene	3.65	0.22	3.87
Toluene	14.72	0.90	15.61
Ethylbenzene	2.36	0.14	2.51
Xylene (-m)	21.15	1.29	22.44
1,2,4-Trimethylbenzene	13.49	0.82	14.31
Unidentified Components	80.44	4.90	85.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 2320-1
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Process Tank

Tank Dimensions

Shell Height (ft):	7.00
Diameter (ft):	7.00
Liquid Height (ft) :	7.00
Avg. Liquid Height (ft):	5.00
Volume (gallons):	2,015.20
Turnovers:	430.14
Net Throughput(gal/yr):	866,815.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.22
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 2320-1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	300.00	295.00	305.00	300.00	0.0092	0.0080	0.0106	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 51 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
 Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455,451.5
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	1.3402

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 51 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 52
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft):	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 52 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 52 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 52 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 53
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft):	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 53 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 53 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 53 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 54
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft) :	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 54 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 54 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	38.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 54 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 55
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft):	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 55 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 55 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	578.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999

Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	578.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	38.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458

Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	7.0000

Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030

Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250

Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458

Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.8580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	38.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	1.3402
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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 55 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 6
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	30.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	211,507.41
Turnovers:	10.77
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.94
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 6 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	375.00	370.00	380.00	375.00	0.0635	0.0564	0.0713	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 6 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	10.7547
Vapor Space Volume (cu ft):	3,048.3268
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9857
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,048.3268
Tank Diameter (ft):	30.0000
Vapor Space Outage (ft):	4.3125
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	38.0000
Roof Outage (ft):	0.3125
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.3125
Roof Height (ft):	0.9375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	15.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Daily Avg. Liquid Surface Temp. (deg. R):	834.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	834.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0149
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0564
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0713
Daily Avg. Liquid Surface Temp. (deg R):	834.6700
Daily Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Daily Ambient Temp. Range (deg. R):	25.8260
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9857
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	4.3125
 Working Losses (lb):	361.4078
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	10.7653
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	211,507.4057
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	30.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	372.1625

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 6 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	361.41	10.75	372.16

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 68
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions

Shell Height (ft):	16.00
Diameter (ft):	11.00
Liquid Height (ft) :	16.00
Avg. Liquid Height (ft):	14.40
Volume (gallons):	11,374.40
Turnovers:	1.74
Net Throughput(gal/yr):	19,755.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.34
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 68 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Cracked Heavy Oil Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466			167.36
1,2,4-Trimethylbenzene						0.1421	0.1215	0.1657	120.1900	0.0085	0.0805	120.19
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0020	78.11
Diethylene Triamine (DETA)						0.0136	0.0113	0.0163	103.1700	0.1500	0.1361	103.17
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0011	0.0433	106.17
Hexane (-n)						6.8089	6.1399	7.5349	86.1700	0.0000	0.0004	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0003	0.0272	92.13
Unidentified Components						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 68 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.4245
Vapor Space Volume (cu ft):	162.9439
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9982
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	162.9439
Tank Diameter (ft):	11.0000
Vapor Space Outage (ft):	1.7146
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft):	14.4000
Roof Outage (ft):	0.1146
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1146
Roof Height (ft):	0.3438
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	5.5000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Daily Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0020
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0190
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0210
Daily Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0200
Vapor Space Outage (ft):	1.7146
 Working Losses (lb):	1.1810
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.):	19,755.0000
Annual Turnovers:	1.7368
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	11,374.3983
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft):	11.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	1.6055

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 68 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Cracked Heavy Oil Alkyl Amines	1.18	0.42	1.61
Toluene	0.03	0.01	0.04
Diethylene Triamine (DETA)	0.16	0.06	0.22
Ethylbenzene	0.05	0.02	0.07
Xylene (-m)	0.10	0.03	0.13
1,2,4-Trimethylbenzene	0.10	0.03	0.13
Benzene	0.00	0.00	0.00
Hexane (-n)	0.00	0.00	0.00
Unidentified Components	0.74	0.27	1.01

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 69
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions

Shell Height (ft):	16.00
Diameter (ft):	11.00
Liquid Height (ft) :	16.00
Avg. Liquid Height (ft):	14.40
Volume (gallons):	11,374.40
Turnovers:	1.74
Net Throughput(gal/yr):	19,755.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.34
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 69 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Cracked Heavy Oil Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466			167.36
1,2,4-Trimethylbenzene						0.1421	0.1215	0.1657	120.1900	0.0085	0.0805	120.19
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0020	78.11
Diethylene Triamine (DETA)						0.0136	0.0113	0.0163	103.1700	0.1500	0.1361	103.17
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0011	0.0433	106.17
Hexane (-n)						6.6089	6.1399	7.5349	86.1700	0.0000	0.0004	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0003	0.0272	92.13
Unidentified Components						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 69 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.4245
Vapor Space Volume (cu ft):	162.9439
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9982
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	162.9439
Tank Diameter (ft):	11.0000
Vapor Space Outage (ft):	1.7146
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft):	14.4000
Roof Outage (ft):	0.1146
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1146
Roof Height (ft):	0.3438
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	5.5000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Daily Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psi-cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0020
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0190
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0210
Daily Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0200
Vapor Space Outage (ft):	1.7146
 Working Losses (lb):	1.1810
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.):	19,755.0000
Annual Turnovers:	1.7368
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	11,374.3983
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft):	11.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	1.6055

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 69 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Cracked Heavy Oil Alkyl Amines	1.18	0.42	1.61
Toluene	0.03	0.01	0.04
Diethylene Triamine (DETA)	0.16	0.06	0.22
Ethylbenzene	0.05	0.02	0.07
Xylene (-m)	0.10	0.03	0.13
1,2,4-Trimethylbenzene	0.10	0.03	0.13
Benzene	0.00	0.00	0.00
Hexane (-n)	0.00	0.00	0.00
Unidentified Components	0.74	0.27	1.01

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 7
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	42.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	414,554.52
Turnovers:	5.49
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.31
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 7 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 7 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	6.6873
Vapor Space Volume (cu ft):	6,147.9005
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9957
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	6,147.9005
Tank Diameter (ft):	42.0000
Vapor Space Outage (ft):	4.4375
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	38.0000
Roof Outage (ft):	0.4375
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.4375
Roof Height (ft):	1.3125
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	21.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insolation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9957
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.4375
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	5.4925
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	414,564.5153
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	42.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	110.7243

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 7 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	6.69	110.72

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 74
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	32.00
Diameter (ft):	34.50
Liquid Height (ft) :	32.00
Avg. Liquid Height (ft):	28.80
Volume (gallons):	223,774.84
Turnovers:	10.18
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	1.08
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 74 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	375.00	370.00	380.00	375.00	0.0835	0.0564	0.0713	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 74 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	11.7688
Vapor Space Volume (cu ft):	3,327.3877
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9882
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,327.3877
Tank Diameter (ft):	34.5000
Vapor Space Outage (ft):	3.5594
Tank Shell Height (ft):	32.0000
Average Liquid Height (ft):	28.8000
Roof Outage (ft):	0.3594
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.3594
Roof Height (ft):	1.0781
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	17.2500
 Vapor Density	
Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Daily Avg. Liquid Surface Temp. (deg. R):	834.6700
Daily Average Ambient Temp. (deg. F):	48.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	834.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0149
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0564
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0713
Daily Avg. Liquid Surface Temp. (deg R):	834.6700
Daily Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9882
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	3.5594
 Working Losses (lb):	361.4078
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	10.1751
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	223,774.8353
Maximum Liquid Height (ft):	32.0000
Tank Diameter (ft):	34.5000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	373.1764

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 74 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	361.41	11.77	373.18

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 2320-1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0462
Vapor Space Volume (cu ft):	79.7784
Vapor Density (lb/cu ft):	0.0001
Vapor Space Expansion Factor:	0.0134
Vented Vapor Saturation Factor:	0.9990
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	79.7784
Tank Diameter (ft):	7.0000
Vapor Space Outage (ft):	2.0730
Tank Shell Height (ft):	7.0000
Average Liquid Height (ft):	5.0000
Roof Outage (ft):	0.0730
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.0730
Roof Height (ft):	0.2190
Roof Slope (ft/ft):	0.0600
Shell Radius (ft):	3.5000
Vapor Density	
Vapor Density (lb/cu ft):	0.0001
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0092
Daily Avg. Liquid Surface Temp. (deg. R):	759.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R):	10.731
Liquid Bulk Temperature (deg. R):	759.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0134
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0026
Breather Vent Press. Settling Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0092
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0080
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0106
Daily Avg. Liquid Surface Temp. (deg R):	759.6700
Daily Min. Liquid Surface Temp. (deg R):	754.6700
Daily Max. Liquid Surface Temp. (deg R):	764.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9990
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0092
Vapor Space Outage (ft):	2.0730
Working Losses (lb):	4.7242
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0092
Annual Net Throughput (gal/yr.):	866,815.0000
Annual Turnovers:	430.1394
Turnover Factor:	0.2364
Maximum Liquid Volume (gal):	2,015.1956
Maximum Liquid Height (ft):	7.0000
Tank Diameter (ft):	7.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	4.7704

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 2320-1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	4.72	0.05	4.77

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 24
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Catalytic Cracked Oil Storage

Tank Dimensions

Shell Height (ft):	32.00
Diameter (ft):	12.00
Liquid Height (ft) :	32.00
Avg. Liquid Height (ft):	28.80
Volume (gallons):	27,072.95
Turnovers:	8.78
Net Throughput(gal/yr):	237,572.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 24 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
SC Culler	All	95.00	90.00	100.00	95.00	0.0191	0.0220	0.0165	130.0000			188.00
1,2,4-Trimethylbenzene						0.0743	0.0626	0.0878	120.1900	0.0100	0.0562	120.19
Benzene						2.8635	2.5405	3.2193	78.1100	0.0000	0.0017	78.11
Ethylbenzene						0.3336	0.2873	0.3862	106.1700	0.0013	0.0328	106.17
Hexane (-n)						4.4426	3.9698	4.9599	86.1700	0.0000	0.0003	86.17
Toluene						0.9034	0.7899	1.0303	92.1300	0.0003	0.0219	92.13
Unidentified Components						0.0154	0.0138	0.0148	135.9530	0.9855	0.8252	189.78
Xylene (-m)						0.2811	0.2417	0.3259	106.1700	0.0029	0.0617	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 24 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	1.0037
Vapor Space Volume (cu ft):	376.0486
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9966
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	376.0486
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	3.3250
Tank Shell Height (ft):	32.0000
Average Liquid Height (ft):	28.8000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0004
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0191
Daily Avg. Liquid Surface Temp. (deg. R):	554.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	554.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	-0.0055
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0191
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0220
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0165
Daily Avg. Liquid Surface Temp. (deg R):	554.6700
Daily Min. Liquid Surface Temp. (deg R):	549.6700
Daily Max. Liquid Surface Temp. (deg R):	559.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9966
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0191
Vapor Space Outage (ft):	3.3250
Working Losses (lb):	14.0450
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0191
Annual Net Throughput (gal/yr.):	237,572.0000
Annual Turnovers:	8.7753
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	27,072.9479
Maximum Liquid Height (ft):	32.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	15.0488

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 24 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
SC Cutter	14.05	1.00	15.05
Hexane (-n)	0.00	0.00	0.01
Benzene	0.02	0.00	0.03
Toluene	0.31	0.02	0.33
Ethylbenzene	0.46	0.03	0.49
Xylene (-m)	0.87	0.06	0.93
1,2,4-Trimethylbenzene	0.79	0.06	0.85
Unidentified Components	11.59	0.83	12.42

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 25
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	#1 Diesel Fuel Storage

Tank Dimensions

Shell Height (ft):	21.00
Diameter (ft):	12.00
Liquid Height (ft) :	21.00
Avg. Liquid Height (ft):	18.90
Volume (gallons):	17,766.62
Turnovers:	52.54
Net Throughput(gal/yr):	933,420.00
Is Tank Heated (y/n):	N

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 25 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Fuel Oil #1	All	54.31	43.90	64.72	48.95	0.0515	0.0500	0.0800	86.3479			160.32
1,2,4-Trimethylbenzene						0.0162	0.0104	0.0246	120.1900	0.0020	0.0012	120.19
Benzene						0.9952	0.7343	1.3291	78.1100	0.0000	0.0012	78.11
Ethylbenzene						0.0888	0.0606	0.1277	106.1700	0.0013	0.0041	106.17
Hexane (-n)						1.6468	1.2384	2.1603	86.1700	0.0000	0.0024	86.17
Toluene						0.2759	0.1961	0.3817	92.1300	0.0011	0.0112	92.13
Unidentified Components						0.0508	0.0502	0.0503	86.0659	0.9925	0.9718	160.93
Xylene (-m)						0.0738	0.0502	0.1065	106.1700	0.0031	0.0081	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 25 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	6.6684
Vapor Space Volume (cu ft):	251.6418
Vapor Density (lb/cu ft):	0.0008
Vapor Space Expansion Factor:	0.0770
Vented Vapor Saturation Factor:	0.9940
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	251.6418
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	2.2250
Tank Shell Height (ft):	21.0000
Average Liquid Height (ft):	18.9000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0008
Vapor Molecular Weight (lb/lb-mole):	86.3479
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0515
Daily Avg. Liquid Surface Temp. (deg. R):	513.9787
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R):	10.731
Liquid Bulk Temperature (deg. R):	508.6242
Tank Paint Solar Absorptance (Shell):	0.8000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insolation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0770
Daily Vapor Temperature Range (deg. R):	41.8269
Daily Vapor Pressure Range (psia):	0.0100
Breather Vent Press. Setting Range (psia):	0.0800
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0515
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0500
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0800
Daily Avg. Liquid Surface Temp. (deg R):	513.9787
Daily Min. Liquid Surface Temp. (deg R):	503.5720
Daily Max. Liquid Surface Temp. (deg R):	524.3854
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9940
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0515
Vapor Space Outage (ft):	2.2250
Working Losses (lb):	72.8049
Vapor Molecular Weight (lb/lb-mole):	86.3479
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0515
Annual Net Throughput (gal/yr.):	933,420.0000
Annual Turnovers:	52.5378
Turnover Factor:	0.7377
Maximum Liquid Volume (gal):	17,766.6221
Maximum Liquid Height (ft):	21.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	78.5713

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 25 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Fuel Oil #1	72.90	5.67	78.57
Hexane (-n)	0.17	0.01	0.19
Benzene	0.09	0.01	0.09
Toluene	0.82	0.06	0.88
Ethylbenzene	0.30	0.02	0.32
Xylene (-m)	0.59	0.05	0.64
1,2,4-Trimethylbenzene	0.09	0.01	0.09
Unidentified Components	70.85	5.51	76.36

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 26r1
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cutback

Tank Dimensions

Shell Height (ft):	32.00
Diameter (ft):	12.00
Liquid Height (ft) :	32.00
Avg. Liquid Height (ft):	28.80
Volume (gallons):	27,072.95
Turnovers:	46.72
Net Throughput(gal/yr):	1,264,862.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 26r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cutback	All	150.00	145.00	155.00	150.00	0.1850	0.0100	0.2000	128.5900			276.33
1,2,4-Trimethylbenzene						0.3887	0.3404	0.4450	120.1900	0.0015	0.0067	120.19
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.8850	0.0000	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0000	0.0039	78.11
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0001	0.0016	106.17
Hexane (-n)						13.2858	12.1429	14.5115	86.1700	0.0000	0.0026	86.17
Toluene						3.3295	2.9919	3.6975	92.1300	0.0003	0.0126	92.13
Unidentified Components						0.2178	0.2149	0.2183	130.3106	0.3120	0.9582	107.34
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0010	0.0141	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 26r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	15.3879
Vapor Space Volume (cu ft):	376.0486
Vapor Density (lb/cu ft):	0.0036
Vapor Space Expansion Factor:	0.0318
Vented Vapor Saturation Factor:	0.9684
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	376.0486
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	3.3250
Tank Shell Height (ft):	32.0000
Average Liquid Height (ft):	28.8000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof):	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0036
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Daily Avg. Liquid Surface Temp. (deg. R):	609.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	609.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0318
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.1900
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0100
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	609.6700
Daily Min. Liquid Surface Temp. (deg R):	604.6700
Daily Max. Liquid Surface Temp. (deg R):	614.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9684
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Space Outage (ft):	3.3250
Working Losses (lb):	579.4350
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr):	1,264,862.0000
Annual Turnovers:	46.7205
Turnover Factor:	0.8088
Maximum Liquid Volume (gal):	27,072.9479
Maximum Liquid Height (ft):	32.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	594.8030

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 26r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cutback	579.44	15.37	594.80
Asphalt Cement	0.02	0.00	0.02
Hexane (-n)	1.52	0.04	1.56
Benzene	2.28	0.06	2.34
Toluene	7.33	0.19	7.52
Ethylbenzene	0.95	0.03	0.97
Xylene (-m)	8.19	0.22	8.41
1,2,4-Trimethylbenzene	3.90	0.10	4.01
Unidentified Components	555.24	14.73	569.97

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 27
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	#1 Diesel Fuel Storage

Tank Dimensions

Shell Height (ft):	21.00
Diameter (ft):	12.00
Liquid Height (ft) :	21.00
Avg. Liquid Height (ft):	18.90
Volume (gallons):	17,766.62
Turnovers:	52.54
Net Throughput(gal/yr):	933,420.00
Is Tank Heated (y/n):	N

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 27 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Fuel Oil #1	All	54.31	43.90	64.72	48.95	0.0515	0.0500	0.0600	86.3479			160.32
1,2,4-Trimethylbenzene						0.0162	0.0104	0.0246	120.1900	0.0020	0.0012	120.19
Benzene						0.9952	0.7343	1.3291	78.1100	0.0000	0.0012	78.11
Ethylbenzene						0.0888	0.0606	0.1277	106.1700	0.0013	0.0041	106.17
Hexane (-n)						1.6468	1.2384	2.1603	86.1700	0.0000	0.0024	86.17
Toluene						0.2759	0.1961	0.3817	92.1300	0.0011	0.0112	92.13
Unidentified Components						0.0508	0.0502	0.0503	86.0659	0.9925	0.9718	160.93
Xylene (-m)						0.0738	0.0502	0.1065	106.1700	0.0031	0.0081	106.17

TANKS 4.0.9d

Emissions Report - Detail Format

Detail Calculations (AP-42)

2005 Tank 27 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	5.6664
Vapor Space Volume (cu ft):	251.6416
Vapor Density (lb/cu ft):	0.0008
Vapor Space Expansion Factor:	0.0770
Vented Vapor Saturation Factor:	0.9940
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	251.6416
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	2.2250
Tank Shell Height (ft):	21.0000
Average Liquid Height (ft):	18.9000
Roof Outage (ft):	0.1250
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0008
Vapor Molecular Weight (lb/lb-mole):	86.3479
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0515
Daily Avg. Liquid Surface Temp. (deg. R):	513.9787
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	508.6242
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0770
Daily Vapor Temperature Range (deg. R):	41.6269
Daily Vapor Pressure Range (psia):	0.0100
Breather Vent Press. Setting Range (psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0515
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0500
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0800
Daily Avg. Liquid Surface Temp. (deg R):	513.9787
Daily Min. Liquid Surface Temp. (deg R):	503.5720
Daily Max. Liquid Surface Temp. (deg R):	524.3854
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9940
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0515
Vapor Space Outage (ft):	2.2250
 Working Losses (lb):	72.8049
Vapor Molecular Weight (lb/lb-mole):	86.3479
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0515
Annual Net Throughput (gal/yr.):	933,420.0000
Annual Turnovers:	52.5378
Turnover Factor:	0.7377
Maximum Liquid Volume (gal):	17,766.6221
Maximum Liquid Height (ft):	21.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	78.5713

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 27 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Fuel Oil #1	72.90	5.67	78.57
Hexane (-n)	0.17	0.01	0.19
Benzene	0.09	0.01	0.09
Toluene	0.82	0.06	0.88
Ethylbenzene	0.30	0.02	0.32
Xylene (-m)	0.59	0.05	0.64
1,2,4-Trimethylbenzene	0.09	0.01	0.09
Unidentified Components	70.85	5.51	76.36

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 28r1
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cutback

Tank Dimensions

Shell Height (ft):	32.00
Diameter (ft):	12.00
Liquid Height (ft) :	32.00
Avg. Liquid Height (ft):	28.80
Volume (gallons):	27,072.95
Turnovers:	46.72
Net Throughput(gal/yr):	1,264,862.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 28r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cutback	All	150.00	145.00	155.00	150.00	0.1850	0.0100	0.2000	128.5900			278.33
1,2,4-Trimethylbenzene						0.3897	0.3404	0.4450	120.1900	0.0015	0.0067	120.19
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.6850	0.0000	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0000	0.0039	78.11
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0001	0.0016	106.17
Hexane (-n)						13.2858	12.1428	14.5115	86.1700	0.0000	0.0028	86.17
Toluene						3.3295	2.9919	3.6975	92.1300	0.0003	0.0126	92.13
Unidentified Components						0.2178	0.2149	0.2163	130.3106	0.3120	0.9582	107.34
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0010	0.0141	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 28r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	15.3879
Vapor Space Volume (cu ft):	378.0488
Vapor Density (lb/cu ft):	0.0036
Vapor Space Expansion Factor:	0.0318
Vented Vapor Saturation Factor:	0.9684
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	378.0488
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	3.3250
Tank Shell Height (ft):	32.0000
Average Liquid Height (ft):	28.8000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0036
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Daily Avg. Liquid Surface Temp. (deg. R):	609.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	609.6700
Tank Paint Solar Absorptance (Shell):	0.8000
Tank Paint Solar Absorptance (Roof):	0.8000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0318
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.1900
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0100
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	609.6700
Daily Min. Liquid Surface Temp. (deg R):	604.6700
Daily Max. Liquid Surface Temp. (deg R):	614.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9684
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Space Outage (ft):	3.3250
Working Losses (lb):	579.4350
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr):	1,264,862.0000
Annual Turnovers:	46.7205
Turnover Factor:	0.8088
Maximum Liquid Volume (gal):	27,072.9479
Maximum Liquid Height (ft):	32.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	594.8030

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 28r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cutback	579.44	15.37	594.80
Asphalt Cement	0.02	0.00	0.02
Hexane (-n)	1.52	0.04	1.56
Benzene	2.28	0.06	2.34
Toluene	7.33	0.19	7.52
Ethylbenzene	0.95	0.03	0.97
Xylene (-m)	8.19	0.22	8.41
1,2,4-Trimethylbenzene	3.90	0.10	4.01
Unidentified Components	555.24	14.73	569.97

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 29
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Naphtha Storage

Tank Dimensions

Shell Height (ft):	21.00
Diameter (ft):	12.00
Liquid Height (ft) :	21.00
Avg. Liquid Height (ft):	18.90
Volume (gallons):	17,766.62
Turnovers:	12.37
Net Throughput(gal/yr):	219,797.00
Is Tank Heated (y/n):	N

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 29 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Naphtha-User Input	All	54.31	43.90	64.72	48.95	0.5532	0.4000	1.4013	120.0000			120.00
Benzene						0.9952	0.7343	1.3291	78.1100	0.0010	0.0018	78.11
Cyclohexane						1.0362	0.7701	1.3748	84.1600	0.0120	0.0225	84.16
Ethylbenzene						0.0888	0.0606	0.1277	106.1700	0.0050	0.0008	106.17
Hexane (-n)						1.6468	1.2384	2.1603	86.1700	0.0150	0.0447	86.17
Isopropyl benzene						0.0412	0.0273	0.0609	120.2000	0.0020	0.0001	120.20
Toluene						0.2759	0.1961	0.3817	92.1300	0.0200	0.0100	92.13
Unidentified Components						0.5450	0.5070	0.5217	124.2870	0.9200	0.9168	122.87
Xylene (-m)						0.0738	0.0502	0.1065	106.1700	0.0250	0.0033	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 29 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	185.6268
Vapor Space Volume (cu ft):	251.6416
Vapor Density (lb/cu ft):	0.0120
Vapor Space Expansion Factor:	0.1596
Vented Vapor Saturation Factor:	0.9388
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	251.6416
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	2.2250
Tank Shell Height (ft):	21.0000
Average Liquid Height (ft):	18.9000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0120
Vapor Molecular Weight (lb/lb-mole):	120.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.5532
Daily Avg. Liquid Surface Temp. (deg. R):	513.9787
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	508.6242
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.1596
Daily Vapor Temperature Range (deg. R):	41.6269
Daily Vapor Pressure Range (psia):	1.0013
Breather Vent Press. Setting Range (psia):	0.0600
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.5532
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.4000
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	1.4013
Daily Avg. Liquid Surface Temp. (deg R):	513.9787
Daily Min. Liquid Surface Temp. (deg R):	503.5720
Daily Max. Liquid Surface Temp. (deg R):	524.3854
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9388
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.5532
Vapor Space Outage (ft):	2.2250
Working Losses (lb):	347.4049
Vapor Molecular Weight (lb/lb-mole):	120.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.5532
Annual Net Throughput (gal/yr.):	219,797.0000
Annual Turnovers:	12.3713
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	17,766.8221
Maximum Liquid Height (ft):	21.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	513.0314

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 29 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Naphtha-User Input	347.40	165.63	513.03
Hexane (-n)	15.51	7.40	22.91
Benzene	0.62	0.30	0.92
Toluene	3.46	1.65	5.12
Ethylbenzene	0.28	0.13	0.41
Xylene (-m)	1.16	0.55	1.71
Isopropyl benzene	0.05	0.02	0.08
Cyclohexane	7.81	3.72	11.53
Unidentified Components	318.50	151.85	470.35

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 2r1
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Cutback Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft) :	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	30.51
Net Throughput(gal/yr):	1,264,862.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 2r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cutback	All	150.00	145.00	155.00	150.00	0.1850	0.0100	0.2000	128.5900			276.33
1,2,4-Trimethylbenzene						0.3897	0.3404	0.4450	120.1900	0.0015	0.0067	120.19
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.6850	0.0000	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0000	0.0039	78.11
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0001	0.0016	106.17
Hexane (-n)						13.2858	12.1429	14.5115	86.1700	0.0000	0.0026	86.17
Toluene						3.3295	2.9919	3.6975	92.1300	0.0003	0.0126	92.13
Unidentified Components						0.2178	0.2149	0.2163	130.3106	0.3120	0.9582	107.34
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0010	0.0141	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 2r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	23.4711
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0036
Vapor Space Expansion Factor:	0.0318
Vented Vapor Saturation Factor:	0.9646

Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458

Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000

Vapor Density	
Vapor Density (lb/cu ft):	0.0036
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Daily Avg. Liquid Surface Temp. (deg. R):	609.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	609.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030

Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0318
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.1900
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0100
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	609.6700
Daily Min. Liquid Surface Temp. (deg R):	604.6700
Daily Max. Liquid Surface Temp. (deg R):	614.6700
Daily Ambient Temp. Range (deg. R):	25.6250

Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9646
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Space Outage (ft):	3.7458

Working Losses (lb):	716.4284
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr.):	1,264,862.0000
Annual Turnovers:	30.5114
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	41,455.4500
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	739.8995
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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 2r1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cutback	716.43	23.47	739.90
Asphalt Cement	0.03	0.00	0.03
Hexane (-n)	1.88	0.06	1.94
Benzene	2.82	0.09	2.91
Toluene	9.06	0.30	9.36
Ethylbenzene	1.17	0.04	1.21
Xylene (-m)	10.13	0.33	10.46
1,2,4-Trimethylbenzene	4.83	0.16	4.98
Unidentified Components	686.51	22.49	709.00

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 3
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Lube Oil Storage

Tank Dimensions

Shell Height (ft):	32.00
Diameter (ft):	12.00
Liquid Height (ft) :	32.00
Avg. Liquid Height (ft):	28.80
Volume (gallons):	27,072.95
Turnovers:	5.28
Net Throughput(gal/yr):	142,857.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 3 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Extender	All	115.00	110.00	120.00	115.00	0.0290	0.0290	0.0290	130.0000			162.00
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0077	78.11
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0013	0.0321	106.17
Hexane (-n)						6.8089	6.1399	7.5349	86.1700	0.0001	0.0146	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0013	0.0859	92.13
Unidentified Components						0.0212	0.0198	0.0201	142.5814	0.9942	0.7933	162.55
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0031	0.0664	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 3 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	1.4527
Vapor Space Volume (cu ft):	376.0486
Vapor Density (lb/cu ft):	0.0006
Vapor Space Expansion Factor:	0.0174
Vented Vapor Saturation Factor:	0.9949
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	376.0486
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	3.3250
Tank Shell Height (ft):	32.0000
Average Liquid Height (ft):	28.8000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0006
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0290
Daily Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.8000
Tank Paint Solar Absorptance (Roof):	0.8000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0174
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0000
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0290
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0290
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0290
Daily Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9949
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0290
Vapor Space Outage (ft):	3.3250
Working Losses (lb):	12.8231
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0290
Annual Net Throughput (gal/yr.):	142,857.0000
Annual Turnovers:	5.2767
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	27,072.9479
Maximum Liquid Height (ft):	32.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	14.2759

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 3 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Extender	12.82	1.45	14.28
Hexane (-n)	0.19	0.02	0.21
Toluene	1.10	0.12	1.23
Ethylbenzene	0.41	0.05	0.46
Xylene (-m)	0.85	0.10	0.95
Benzene	0.10	0.01	0.11
Unidentified Components	10.17	1.15	11.32

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 320-1
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	12.00
Diameter (ft):	12.00
Liquid Height (ft) :	12.00
Avg. Liquid Height (ft):	10.00
Volume (gallons):	10,152.36
Turnovers:	449.98
Net Throughput(gal/yr):	4,568,349.50
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.38
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (pslg)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 320-1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	370.00	365.00	375.00	370.00	0.0564	0.0501	0.0635	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 320-1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.7818
Vapor Space Volume (cu ft):	240.3318
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9937
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	240.3318
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	2.1250
Tank Shell Height (ft):	12.0000
Average Liquid Height (ft):	10.0000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0800
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0564
Daily Avg. Liquid Surface Temp. (deg. R):	829.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	829.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0134
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0564
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0501
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0635
Daily Avg. Liquid Surface Temp. (deg R):	829.6700
Daily Min. Liquid Surface Temp. (deg R):	824.6700
Daily Max. Liquid Surface Temp. (deg R):	834.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9937
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0564
Vapor Space Outage (ft):	2.1250
Working Losses (lb):	150.3974
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0564
Annual Net Throughput (gal/yr.):	4,568,349.5000
Annual Turnovers:	449.9793
Turnover Factor:	0.2333
Maximum Liquid Volume (gal):	10,152.3555
Maximum Liquid Height (ft):	12.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	151.1590

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 320-1 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	150.40	0.76	151.16

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 35
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	100.00
Liquid Height (ft):	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	2,350,082.29
Turnovers:	0.97
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	3.13
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 35 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 35 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	43.0461
Vapor Space Volume (cu ft):	39,597.1574
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9951
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	39,597.1574
Tank Diameter (ft):	100.0000
Vapor Space Outage (ft):	5.0417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	1.0417
 Roof Outage (Cone Roof)	
Roof Outage (ft):	1.0417
Roof Height (ft):	3.1250
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	50.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9951
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	5.0417
 Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	0.9689
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	2,350,082.2861
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	100.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	147.0831

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 35 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	43.05	147.08

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 35 - Combined
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	100.00
Liquid Height (ft):	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	2,350,082.29
Turnovers:	3.88
Net Throughput(gal/yr):	9,127,507.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	3.13
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 35 - Combined - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0180	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 35 - Combined - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	43.0461
Vapor Space Volume (cu ft):	39,597.1574
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9951
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	39,597.1574
Tank Diameter (ft):	100.0000
Vapor Space Outage (ft):	5.0417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	1.0417
Roof Outage (Cone Roof)	
Roof Outage (ft):	1.0417
Roof Height (ft):	3.1250
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	50.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9951
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	5.0417
Working Losses (lb):	417.0508
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	9,127,507.0000
Annual Turnovers:	3.8839
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	2,350,082.2861
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	100.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	460.0969

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 35 - Combined - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	417.05	43.05	460.10

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 36
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	50.00
Diameter (ft):	75.00
Liquid Height (ft) :	50.00
Avg. Liquid Height (ft):	45.00
Volume (gallons):	1,652,401.61
Turnovers:	1.38
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	2.34
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 36 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 36 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	27.7457
Vapor Space Volume (cu ft):	25,540.8537
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9944
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	25,540.8537
Tank Diameter (ft):	75.0000
Vapor Space Outage (ft):	5.7813
Tank Shell Height (ft):	50.0000
Average Liquid Height (ft):	45.0000
Roof Outage (ft):	0.7813
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.7813
Roof Height (ft):	2.3438
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	37.5000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9944
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	5.7813
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	1.3780
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	1,652,401.6074
Maximum Liquid Height (ft):	50.0000
Tank Diameter (ft):	75.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	131.7827

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 36 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	27.75	131.78

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 37
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	50.00
Diameter (ft):	75.00
Liquid Height (ft) :	50.00
Avg. Liquid Height (ft):	45.00
Volume (gallons):	1,652,401.61
Turnovers:	1.38
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	2.34
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 37 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 37 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	27.7457
Vapor Space Volume (cu ft):	25,540.8537
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9944
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	25,540.8537
Tank Diameter (ft):	75.0000
Vapor Space Outage (ft):	5.7813
Tank Shell Height (ft):	50.0000
Average Liquid Height (ft):	45.0000
Roof Outage (ft):	0.7813
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.7813
Roof Height (ft):	2.3438
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	37.5000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9944
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	5.7813
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	1.3780
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	1,652,401.6074
Maximum Liquid Height (ft):	50.0000
Tank Diameter (ft):	75.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	131.7827

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 37 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	27.75	131.78

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 38
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	100.00
Liquid Height (ft):	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	2,350,082.29
Turnovers:	0.97
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	3.13
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 38 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 38 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	43.0481
Vapor Space Volume (cu ft):	39,597.1574
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9951
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	39,597.1574
Tank Diameter (ft):	100.0000
Vapor Space Outage (ft):	5.0417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	1.0417
Roof Outage (Cone Roof)	
Roof Outage (ft):	1.0417
Roof Height (ft):	3.1250
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	50.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9951
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	5.0417
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	0.9689
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	2,350,082.2881
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	100.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	147.0831

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 38 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	43.05	147.08

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 4
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	30.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	211,507.41
Turnovers:	10.77
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.94
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 4 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	375.00	370.00	380.00	375.00	0.0635	0.0584	0.0713	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 4 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	10.7547
Vapor Space Volume (cu ft):	3,048.3268
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9857

Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,048.3268
Tank Diameter (ft):	30.0000
Vapor Space Outage (ft):	4.3125
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	38.0000
Roof Outage (ft):	0.3125

Roof Outage (Cone Roof)	
Roof Outage (ft):	0.3125
Roof Height (ft):	0.9375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	15.0000

Vapor Density	
Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Daily Avg. Liquid Surface Temp. (deg. R):	834.6700
Daily Average Ambient Temp. (deg. F):	48.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	834.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030

Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0149
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0584
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0713
Daily Avg. Liquid Surface Temp. (deg R):	834.6700
Daily Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Daily Ambient Temp. Range (deg. R):	25.8250

Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9857
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	4.3125

Working Losses (lb):	361.4078
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Annual Net Throughput (gal/yr):	2,276,938.0000
Annual Turnovers:	10.7653
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	211,507.4057
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	30.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	372.1625
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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 4 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	361.41	10.75	372.16

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 4 - Combined
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	30.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	211,507.41
Turnovers:	161.48
Net Throughput(gal/yr):	34,154,070.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.94
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 4 - Combined - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	375.00	370.00	380.00	375.00	0.0635	0.0664	0.0713	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 4 - Combined - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	10.7547
Vapor Space Volume (cu ft):	3,048.3266
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9857

Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,048.3266
Tank Diameter (ft):	30.0000
Vapor Space Outage (ft):	4.3125
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.3125

Roof Outage (Cone Roof)	
Roof Outage (ft):	0.3125
Roof Height (ft):	0.9375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	15.0000

Vapor Density	
Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0635
Daily Avg. Liquid Surface Temp. (deg. R):	834.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	834.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030

Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0149
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0635
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0564
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0713
Daily Avg. Liquid Surface Temp. (deg R):	834.6700
Daily Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Daily Ambient Temp. Range (deg. R):	25.8250

Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9857
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	4.3125

Working Losses (lb):	1,910.6670
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0635
Annual Net Throughput (gal/yr.):	34,154,070.0000
Annual Turnovers:	161.4793
Turnover Factor:	0.3524
Maximum Liquid Volume (gal):	211,507.4057
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	30.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	1,921.4217
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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 4 - Combined - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1,910.67	10.75	1,921.42

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 44
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft):	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 44 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 44 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 44 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 45
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft):	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 45 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 45 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.8843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 45 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 46
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft) :	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 46 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 46 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999

Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458

Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000

Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,371.0030

Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Settling Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	26.8250

Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458

Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6643
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	1.3402
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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 46 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 47
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft) :	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used In Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 47 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 47 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.8262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.8262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
 Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.8843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	1.3402

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 47 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 48
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft):	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 48 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 48 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.8000
Tank Paint Solar Absorptance (Roof):	0.8000
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 48 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 49
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Fuel-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft) :	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	30.37
Net Throughput(gal/yr):	1,259,177.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 49 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Emulsion	All	150.00	145.00	155.00	150.00	0.5000	0.3000	0.7000	87.1252			931.46
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.9000	0.0001	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0001	0.0196	78.11
Cyclohexene						8.4364	7.6743	9.2574	82.1500	0.0012	0.2185	82.15
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0005	0.0152	106.17
Hexane (-n)						13.2858	12.1429	14.5115	86.1700	0.0015	0.4261	86.17
Isopropyl benzene						0.8036	0.7083	0.9096	120.2000	0.0002	0.0034	120.20
Toluene						3.3295	2.8919	3.6975	92.1300	0.0020	0.1424	92.13
Unidentified Components						0.6942	-1.1010	0.1634	84.8476	0.0920	0.1117	1,037.66
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0025	0.0851	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 49 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	63.3072
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0067
Vapor Space Expansion Factor:	0.0497
Vented Vapor Saturation Factor:	0.9097
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0067
Vapor Molecular Weight (lb/lb-mole):	87.1252
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.5000
Daily Avg. Liquid Surface Temp. (deg. R):	609.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	609.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0497
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.4000
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.5000
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.3000
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.7000
Daily Avg. Liquid Surface Temp. (deg R):	609.6700
Daily Min. Liquid Surface Temp. (deg R):	604.6700
Daily Max. Liquid Surface Temp. (deg R):	614.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9097
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.5000
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1,306.0238
Vapor Molecular Weight (lb/lb-mole):	87.1252
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.5000
Annual Net Throughput (gal/yr.):	1,259,177.0000
Annual Turnovers:	30.3742
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1,369.3310

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 49 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Emulsion	1,306.02	63.31	1,369.33
Asphalt Cement	0.12	0.01	0.13
Benzene	25.59	1.24	26.83
Hexane (-n)	556.52	26.98	583.50
Toluene	185.96	9.01	194.97
Ethylbenzene	19.82	0.96	20.79
Xylene (-m)	84.98	4.12	89.10
Isopropyl benzene	4.49	0.22	4.71
Cyclohexene	282.71	13.70	296.41
Unidentified Components	145.83	7.07	152.90

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 5
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	30.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	36.00
Volume (gallons):	211,507.41
Turnovers:	10.77
Net Throughput(gal/yr):	2,276,938.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.94
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 5 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	375.00	370.00	380.00	375.00	0.0635	0.0564	0.0713	105.0000			1,000.00

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 5 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	10.7547
Vapor Space Volume (cu ft):	3,048.3266
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9857
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,048.3266
Tank Diameter (ft):	30.0000
Vapor Space Outage (ft):	4.3125
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.3125
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.3125
Roof Height (ft):	0.9375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	15.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Daily Avg. Liquid Surface Temp. (deg. R):	834.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	834.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0149
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0564
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0713
Daily Avg. Liquid Surface Temp. (deg R):	834.6700
Daily Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9857
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	4.3125
Working Losses (lb):	361.4078
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	10.7653
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	211,507.4057
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	30.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	372.1625

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 5 - Vertical Fixed Roof Tank
Blackfoot, Idaho

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	361.41	10.75	372.16

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 50
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Fuel-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft) :	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	30.37
Net Throughput(gal/yr):	1,259,177.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used In Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 50 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Emulsion	All	150.00	145.00	155.00	150.00	0.9140	0.8000	1.1000	87.1252			931.46
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.9000	0.0001	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0001	0.0107	78.11
Cyclohexene						8.4384	7.6743	9.2674	82.1500	0.0012	0.1184	82.15
Ethylbenzene						1.4198	1.2613	1.5948	106.1700	0.0005	0.0083	106.17
Hexane (-n)						13.2858	12.1429	14.5115	86.1700	0.0015	0.2331	86.17
Isopropyl benzene						0.8036	0.7083	0.9098	120.2000	0.0002	0.0019	120.20
Toluene						3.3295	2.9919	3.6975	92.1300	0.0020	0.0779	92.13
Unidentified Components						5.7073	3.9121	5.1765	88.8481	0.0920	0.5140	1,037.66
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0025	0.0358	106.17

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

2005 Tank 50 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Annual Emission Calculations

Standing Losses (lb):	91.5754
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0122
Vapor Space Expansion Factor:	0.0422
Vented Vapor Saturation Factor:	0.8464
 Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
 Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0825
Shell Radius (ft):	7.0000
 Vapor Density	
Vapor Density (lb/cu ft):	0.0122
Vapor Molecular Weight (lb/lb-mole):	87.1252
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.9140
Daily Avg. Liquid Surface Temp. (deg. R):	609.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	609.6700
Tank Paint Solar Absorptance (Shell):	0.8000
Tank Paint Solar Absorptance (Roof):	0.8000
Daily Total Solar Insulation	
Factor (Btu/sq ft day):	1,371.0030
 Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0422
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.3000
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.9140
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.8000
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	1.1000
Daily Avg. Liquid Surface Temp. (deg R):	609.6700
Daily Min. Liquid Surface Temp. (deg R):	604.6700
Daily Max. Liquid Surface Temp. (deg R):	614.6700
Daily Ambient Temp. Range (deg. R):	25.8250
 Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.8464
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.9140
Vapor Space Outage (ft):	3.7458
 Working Losses (lb):	2,387.4114
Vapor Molecular Weight (lb/lb-mole):	87.1252
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.9140
Annual Net Throughput (gal/yr.):	1,259,177.0000
Annual Turnovers:	30.3742
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
 Total Losses (lb):	2,478.9868

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

2005 Tank 50 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Asphalt Emulsion	2,387.41	91.58	2,478.99
Asphalt Cement	0.12	0.00	0.13
Benzene	25.59	0.98	26.57
Hexane (-n)	556.52	21.35	577.87
Toluene	185.96	7.13	193.09
Ethylbenzene	19.82	0.76	20.59
Xylene (-m)	84.98	3.26	88.24
Isopropyl benzene	4.49	0.17	4.66
Cyclohexene	282.71	10.84	293.55
Unidentified Components	1,227.22	47.07	1,274.29

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	2005 Tank 51
City:	Blackfoot
State:	Idaho
Company:	Idaho Asphalt
Type of Tank:	Vertical Fixed Roof Tank
Description:	Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft):	36.00
Diameter (ft):	14.00
Liquid Height (ft):	36.00
Avg. Liquid Height (ft):	32.40
Volume (gallons):	41,455.45
Turnovers:	57.96
Net Throughput(gal/yr):	2,631,374.00
Is Tank Heated (y/n):	Y

Paint Characteristics

Shell Color/Shade:	Aluminum/Diffuse
Shell Condition:	Good
Roof Color/Shade:	Aluminum/Diffuse
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.44
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

2005 Tank 51 - Vertical Fixed Roof Tank
Blackfoot, Idaho

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight
		Avg.	Min.	Max.		Avg.	Min.	Max.				
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00